

DISPATCHING CONTROL SYSTEM OF VIRTUAL COMPUTER SYSTEM

Patent Number: JP55057953

Publication date: 1980-04-30

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Requested Patent: JP55057953

Application Number: JP19780130819 19781024

Priority Number(s):

IPC Classification: G06F9/46

EC Classification:

Equivalents: JP1477785C, JP63013218B

Abstract

PURPOSE: To reduce an overhead by providing a virtual computer system with a timer which is exclusively used only by a control program and then by dispatching operating system OS by using it.

CONSTITUTION: Among several CPU timers on main memory MEM2, virtual computer monitor MM sets the value of CPU timer 6-i, corresponding to dispatched virtual computer VM, in CPU timer 4. The dispatching of a VM program is carried out and in CPU timer 4, the value of a CPU timer corresponding to newly-dispatched VM is set. An interruption code by a RVM timer 3 is newly defined and an interruption code is stored in a fixed area of MEM2. As a result, there is no need for CPU timers to share VMM and OS of VM and they can be brought under the control of VM, so that the overhead of an interruption process can be reduced.

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